

SuDS Planting Schedule for:

40 Victoria Road,  
Fleur De Lis  
Caerphilly  
NP12 3UG

Prepared for:

Mr Tony Carrafa

REF: 17341-PS01-R01



**Vale Consultancy**  
CONSULTING CIVIL & STRUCTURAL ENGINEERS

## Document Control

<b>Project</b>	<b>40 Victoria Road, Fleur De Lis Caerphilly NP12 3UG</b>
<b>Client</b>	<b>Mr Tony Carrafa</b>
<b>Vale Consultancy Ref:</b>	<b>17341</b>

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## 1.0 Introduction

This document has been prepared by Vale Consultancy. on behalf of the client; Mr Tony Carrafa. The following list of native species plants have been selected as appropriate for use within the scheme rain gardens and attenuation basin because of their resilience within the intended environment, ease of maintenance, and which will also contribute towards local biodiversity.

## 2.0 Planting Schedule

The use of planting native species within bioretention areas and attenuation basins can help to provide a new quality habitat for wildlife, having a positive contribution to biodiversity in the area. Bioretention areas and attenuation basins primarily manage surface water runoff water quality and provide runoff interception for small rainfall events. The use of planted native species can support local biodiversity by providing habitat and food for invertebrates and birds.

The following list of plants have been selected as appropriate for use within the proposed rain garden and infiltration basin areas.

### 2.1 Retention Basin

The following native species plants have been selected to provide a healthy variety of hardy evergreen plants and ornamental flowering plants to add colour and diversity to the retention basin:

	NUMBER	SPECIES	DENSITY
SHRUBS	1	LEYCESTERIA FORMOSA	COUNTED
	6	VINCA MINOR	6/m2
WILDFLOWERS	6	EUPATORIUM CANNABINUM	6/m2
	4	FILIPENDULA ULMARIA	6/m2
	3	LEUCANTHEMUM VULGARE	4/m2
	4	GLADIOLUS COMMUNIS SSP. BYZANTINUS	4/m2
BULBS	1	PHYLLOSTACHYS NIGRA	2/m2
BAMBOOS	2	JUNCUS EFFUSUS SPIRALIS	COUNTED
MARGINAL/ AQUATICS	2	ANEMANTHELE LESSONIANA	3/m2
GRASSES	5	CAREX ELATA 'AUREA'	4/m2
	1	MISCANTHUS 'COSMOPOLITAN'	2/m2
	2	MISCANTHUS SINENSIS 'GRACILLIMUS'	3/m2
	6	CAMPANULA GLOMERATA 'CAROLINE'	6/m2
PERENNIALS	6	LYTHRUM SALICARIA 'ROBERT'	6/m2
	2	VERBENA BONARIENSIS	4/m2
	2	CYTISUS SCOPARIUS	2/m2
EVERGREEN	2	CALLUNA VULGARIS	4/m2
	2	THYMUS POLYTRICHUS	10/m2

### 2.2 Rain Garden (Catchment 1)

The following native species plants have been selected to provide a healthy variety of hardy evergreen plants and ornamental flowering plants to add colour and diversity to the rain garden:

	NUMBER	SPECIES	DENSITY
SHRUBS	0	LEYCESTERIA FORMOSA	COUNTED
	1	VINCA MINOR	6/m2
WILDFLOWERS	1	EUPATORIUM CANNABINUM	6/m2
	1	FILIPENDULA ULMARIA	6/m2
	0	LEUCANTHEMUM VULGARE	4/m2
	1	GLADIOLUS COMMUNIS SSP. BYZANTINUS	4/m2
BULBS	0	PHYLLOSTACHYS NIGRA	2/m2
BAMBOOS	0	JUNCUS EFFUSUS SPIRALIS	COUNTED
MARGINAL/ AQUATICS	0	ANEMANTHELE LESSONIANA	3/m2
GRASSES	1	CAREX ELATA 'AUREA'	4/m2
	0	MISCANTHUS 'COSMOPOLITAN'	2/m2
	0	MISCANTHUS SINENSIS 'GRACILLIMUS'	3/m2
	1	CAMPANULA GLOMERATA 'CAROLINE'	6/m2
PERENNIALS	1	LYTHRUM SALICARIA 'ROBERT'	6/m2
	0	VERBENA BONARIENSIS	4/m2
	1	CYTISUS SCOPARIUS	2/m2
EVERGREEN	1	CALLUNA VULGARIS	4/m2
	1	THYMUS POLYTRICHUS	10/m2

### 2.3 Rain Garden (Catchment 2)

The following native species plants have been selected to provide a healthy variety of hardy evergreen plants and ornamental flowering plants to add colour and diversity to the rain garden:

	NUMBER	SPECIES	DENSITY
SHRUBS	0	LEYCESTERIA FORMOSA	COUNTED
	1	VINCA MINOR	6/m2
WILDFLOWERS	1	EUPATORIUM CANNABINUM	6/m2
	1	FILIPENDULA ULMARIA	6/m2
	1	LEUCANTHEMUM VULGARE	4/m2
	1	GLADIOLUS COMMUNIS SSP. BYZANTINUS	4/m2
BULBS	0	PHYLLOSTACHYS NIGRA	2/m2
BAMBOOS	0	JUNCUS EFFUSUS SPIRALIS	COUNTED
MARGINAL/ AQUATICS	0	ANEMANTHELE LESSONIANA	3/m2
GRASSES	1	CAREX ELATA 'AUREA'	4/m2
	0	MISCANTHUS 'COSMOPOLITAN'	2/m2
	0	MISCANTHUS SINENSIS 'GRACILLIMUS'	3/m2
	1	CAMPANULA GLOMERATA 'CAROLINE'	6/m2
PERENNIALS	1	LYTHRUM SALICARIA 'ROBERT'	6/m2
	0	VERBENA BONARIENSIS	4/m2
	1	CYTISUS SCOPARIUS	2/m2
EVERGREEN	1	CALLUNA VULGARIS	4/m2
	1	THYMUS POLYTRICHUS	10/m2

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## 2.4 Rain Garden (Catchment 3)

The following native species plants have been selected to provide a healthy variety of hardy evergreen plants and ornamental flowering plants to add colour and diversity to the rain garden:

	NUMBER	SPECIES	DENSITY
SHRUBS	0	LEYCESTERIA FORMOSA	COUNTED
	1	VINCA MINOR	6/m2
WILDFLOWERS	1	EUPATORIUM CANNABINUM	6/m2
	1	FILIPENDULA ULMARIA	6/m2
	0	LEUCANTHEMUM VULGARE	4/m2
	1	GLADIOLUS COMMUNIS SSP. BYZANTINUS	4/m2
BULBS	0	PHYLLOSTACHYS NIGRA	2/m2
BAMBOOS	0	JUNCUS EFFUSUS SPIRALIS	COUNTED
MARGINAL/ AQUATICS	0	ANEMANTHELE LESSONIANA	3/m2
GRASSES	1	CAREX ELATA 'AUREA'	4/m2
	0	MISCANTHUS 'COSMOPOLITAN'	2/m2
	0	MISCANTHUS SINENSIS 'GRACILLIMUS'	3/m2
	1	CAMPANULA GLOMERATA 'CAROLINE'	6/m2
PERENNIALS	1	LYTHRUM SALICARIA 'ROBERT'	6/m2
	0	VERBENA BONARIENSIS	4/m2
	1	CYTISUS SCOPARIUS	2/m2
EVERGREEN	1	CALLUNA VULGARIS	4/m2
	1	THYMUS POLYTRICHUS	10/m2

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## 2.5 Rain Garden (Catchment 4)

The following native species plants have been selected to provide a healthy variety of hardy evergreen plants and ornamental flowering plants to add colour and diversity to the rain garden:

	NUMBER	SPECIES	DENSITY
SHRUBS	0	LEYCESTERIA FORMOSA	COUNTED
	1	VINCA MINOR	6/m2
WILDFLOWERS	1	EUPATORIUM CANNABINUM	6/m2
	1	FILIPENDULA ULMARIA	6/m2
	1	LEUCANTHEMUM VULGARE	4/m2
	1	GLADIOLUS COMMUNIS SSP. BYZANTINUS	4/m2
BULBS	0	PHYLLOSTACHYS NIGRA	2/m2
BAMBOOS	0	JUNCUS EFFUSUS SPIRALIS	COUNTED
MARGINAL/ AQUATICS	0	ANEMANTHELE LESSONIANA	3/m2
GRASSES	1	CAREX ELATA 'AUREA'	4/m2
	0	MISCANTHUS 'COSMOPOLITAN'	2/m2
	0	MISCANTHUS SINENSIS 'GRACILLIMUS'	3/m2
	1	CAMPANULA GLOMERATA 'CAROLINE'	6/m2
PERENNIALS	1	LYTHRUM SALICARIA 'ROBERT'	6/m2
	0	VERBENA BONARIENSIS	4/m2
	1	CYTISUS SCOPARIUS	2/m2
EVERGREEN	1	CALLUNA VULGARIS	4/m2
	1	THYMUS POLYTRICHUS	10/m2

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## 2.6 Rain Garden (Catchment 5)

The following native species plants have been selected to provide a healthy variety of hardy evergreen plants and ornamental flowering plants to add colour and diversity to the rain garden:

	NUMBER	SPECIES	DENSITY
SHRUBS	0	LEYCESTERIA FORMOSA	COUNTED
	2	VINCA MINOR	6/m2
WILDFLOWERS	2	EUPATORIUM CANNABINUM	6/m2
	1	FILIPENDULA ULMARIA	6/m2
	1	LEUCANTHEMUM VULGARE	4/m2
	1	GLADIOLUS COMMUNIS SSP. BYZANTINUS	4/m2
BULBS	0	PHYLLOSTACHYS NIGRA	2/m2
BAMBOOS	1	JUNCUS EFFUSUS SPIRALIS	COUNTED
MARGINAL/ AQUATICS	1	ANEMANTHELE LESSONIANA	3/m2
GRASSES	2	CAREX ELATA 'AUREA'	4/m2
	0	MISCANTHUS 'COSMOPOLITAN'	2/m2
	1	MISCANTHUS SINENSIS 'GRACILLIMUS'	3/m2
	2	CAMPANULA GLOMERATA 'CAROLINE'	6/m2
PERENNIALS	2	LYTHRUM SALICARIA 'ROBERT'	6/m2
	1	VERBENA BONARIENSIS	4/m2
	1	CYTISUS SCOPARIUS	2/m2
EVERGREEN	1	CALLUNA VULGARIS	4/m2
	1	THYMUS POLYTRICHUS	10/m2

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